

ABSTRACT OF THE DISCLOSURE

There is provided a double-deck elevator which does not cause any impacts or vibrations on each cage when adjusting the spacing in the vertical direction between upper and lower cages. Loads on an upper support beam from right and left support arms for hoisting and supporting the upper cage are measured by right and left upper measuring units. Similarly, loads on a lower support beam from right and left support arms for hoisting and supporting the lower cage are measured by right and left lower measuring units. Because the magnitude of the loads on the right and left screw shafts can be obtained correctly, any impacts or vibrations caused on each cage can be prevented when adjusting the spacing in the vertical direction by correctly controlling the drive torque output from right and left drive motors.